

AMPAK

AP5168G

Evaluation Kits

User manual

Version 1.1

Revision History

Date	Revision Content	Revised By	Version
2022/12/28	Initial released	Richard	1.0



1. AP5168G Evaluation Board Introduction

AP5168G Evaluation board (EVB) likes as figure1. That is designed for GNSS with integrated sensor hub application. It is subject to provide a convenient environment for customer's verification on GNSS and sensor hub function. There are many controller pins and reserved GPIOs on Evaluation board which describes as below.

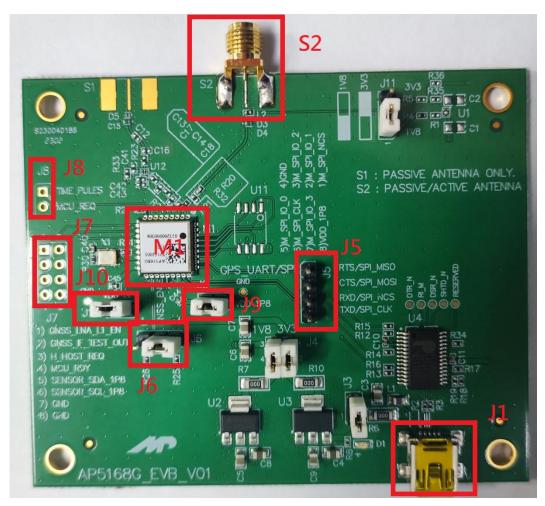


Figure 1. Top view of AP5168G EVB

Interface highlights:

- 1. M1: AP5168G SIP module.
- 2. J1: USB interface for GNSS function test and 5V supply.
- 3. J6: Enable(H) or disable(L) GNSS function
- 4. J9: 1.8V to AP5168G.
- 5. J10: 3.3V to AP5168G.
- 6. J8&J7: sensor hub GPIOs pin.
- 7. J5: UART interface
- 8. S2: SMA connector let GNSS signal input path, you could connect with active antenna.



2. GNSS function verification steps

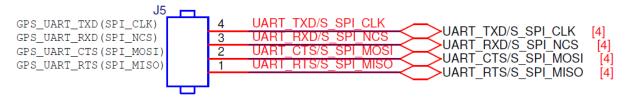


Figure 2. GNSS verification connection interface to Host.

Hardware Setup:

- Refer to Figure 2UART pin definition connects the J5 interface of AP5168G evaluation board to Host UART control interface.
- Connects a GNSS antenna at SMA connector on the evaluation board. **
- Note to the VDDIO voltage level should be the same with GPIO voltage level of Host CPU.

Wi-Fi software setup:

Please follow up software guideline of Ampak official released.